PLEASE DO NOT REMOVE

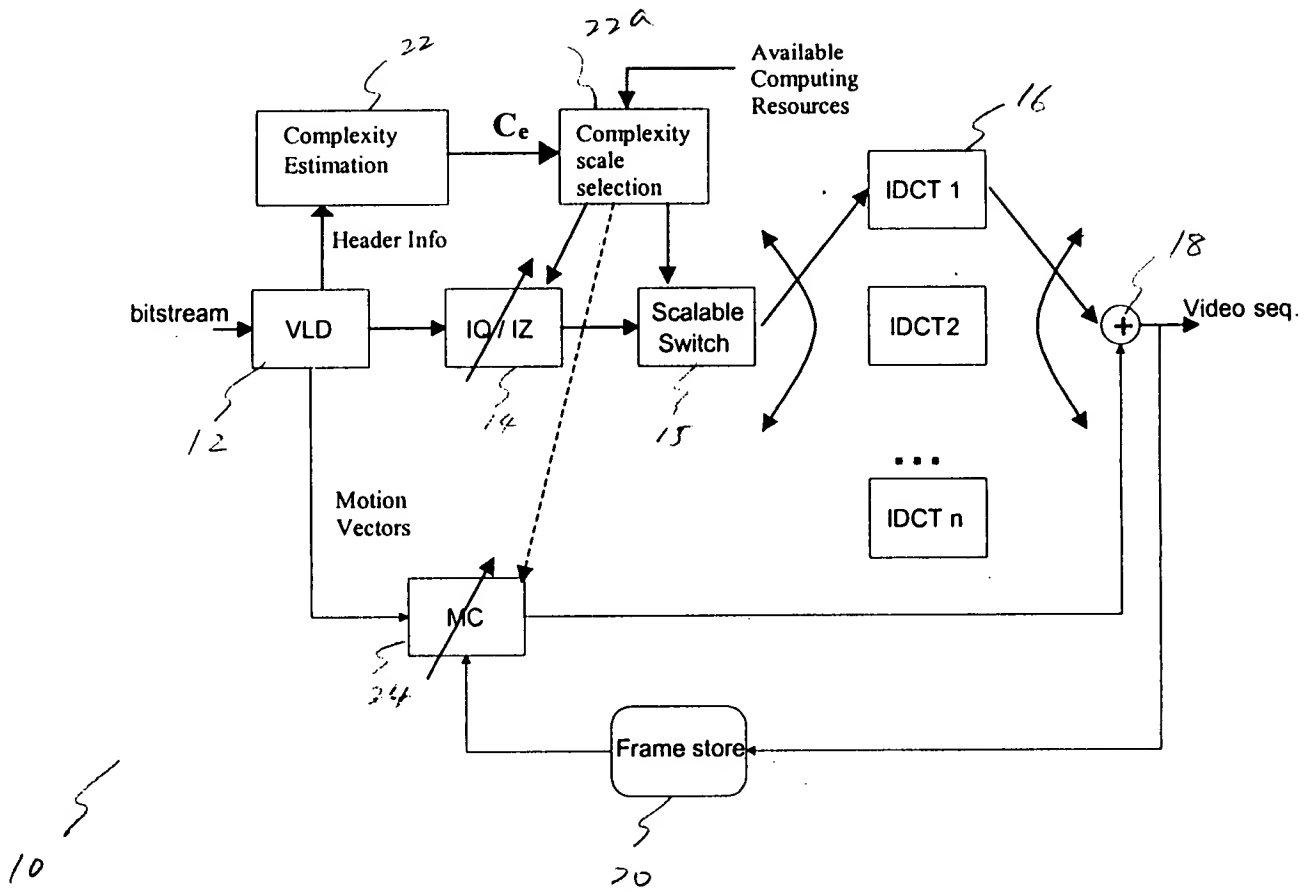

FIG. 1

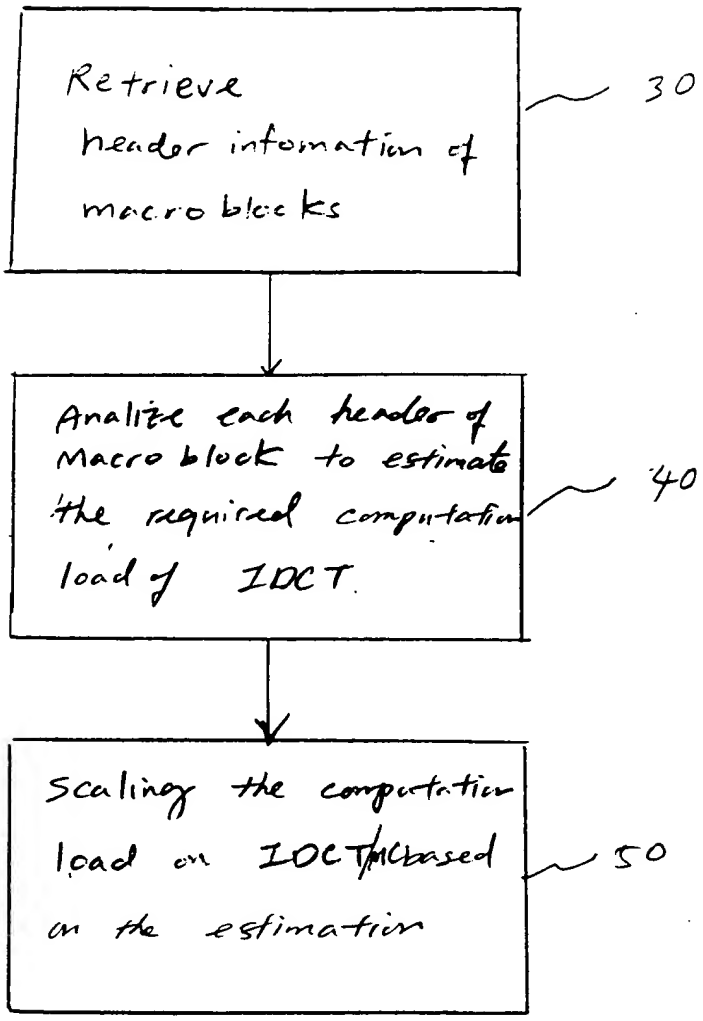
Retrieve header infomation of macro blocks
30
Analize each header of Macro block to estimate the required computation load of IDCT
40
Scaling the computation load on IDCT based on the estimation
50

FIG. 2

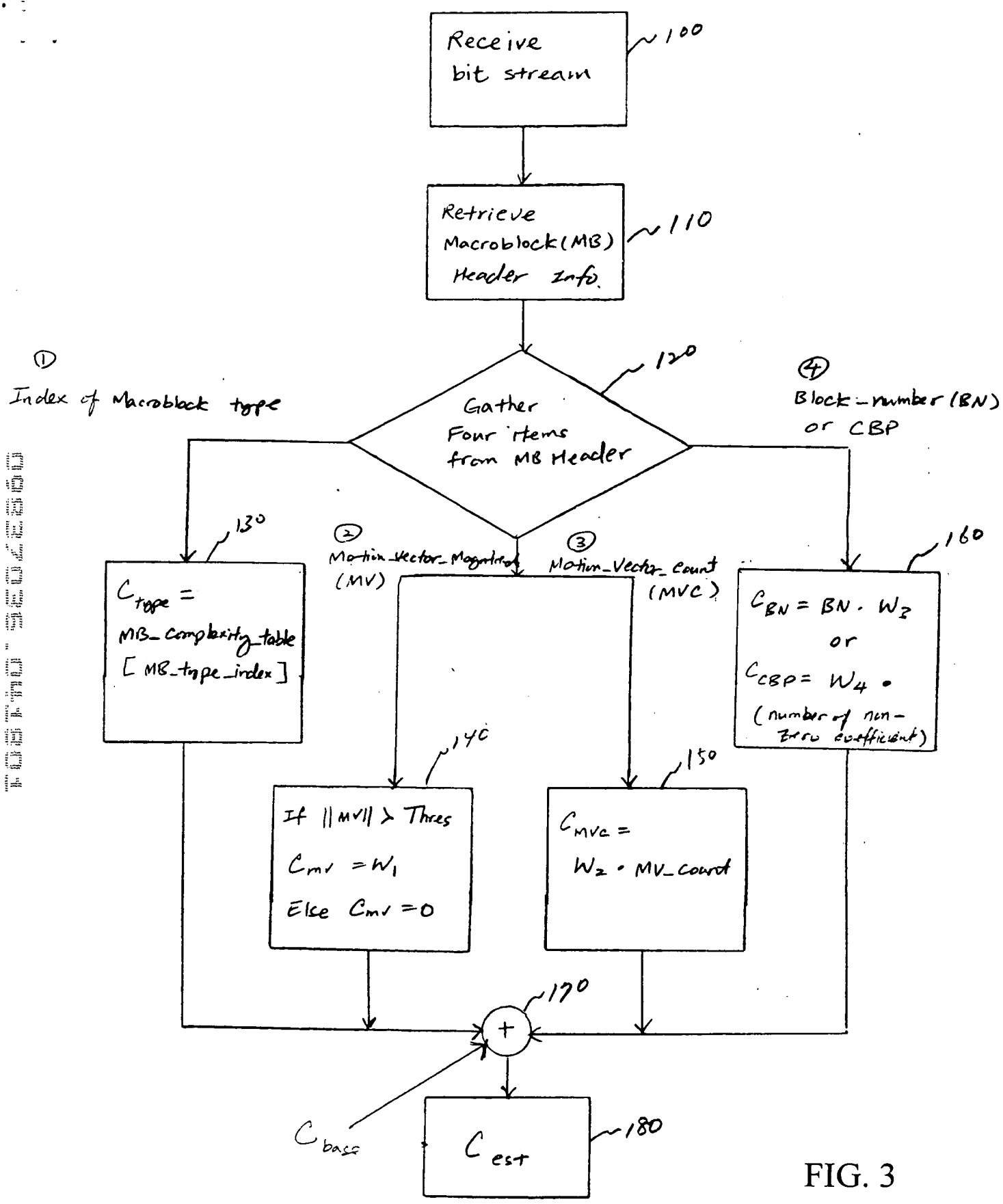
Receive bit stream
100
Retrieve Macroblock(MB) Header Info.
110
Gather Four items from MB Header
120
① Index of Macroblock type
② Motion_vector_Magnitude (MV)
③ Motion_Vector_count (MVC)
④ Block_number (BN) or CBP
130
C_{type} = MB_complexity_table [MB_type_index]
140
If ||MV|| > Thres
$C_{mv} = W_1$
Else $C_{mv} = 0$
150
C_{MVc} = W_2 · MV_count
160
$C_{BN} = BN \cdot W_3$ or $C_{CBP} = W_4$ · (number of non-Zero coefficient)
170
+
C_{base}
C_{est}
180

FIG. 3

FIG. 4(a)

macroblock_ type	macroblock_ quant	macroblock motion_ forward	macroblock motion_ backward	macroblock_ pattern	macroblock_ intra	VLC
Intra					1	1
Intra, macroblock_quant					1	01

FIG. 4(b)

macroblock_ type	macroblock quant	macroblock_ motion_ forward	macroblock motion_ backward	macroblock_ pattern	macroblock_ intra	VLC
MC, Coded		1		1		1
No MC, Coded				1		01
MC Not Coded		1				001
Intra					1	00011
MC, Coded macroblock_quant	1	1		1		00010
No MC, Coded, macroblock_quant	1			1		00001
Intra, macroblock_quant	1				1	000001

FIG. 4(c)

macroblock_ type	macroblock_ quant	macroblock_ motion forward	macroblock_ motion_ backward	macroblock_ pattern	macroblock_ intra	VLC
MC Interpolated, Not Coded		1	1			10
MC Interpolated, Coded		1	1	1		11
MC Backward, Not Coded			1			010
MC Backward, Coded			1	1		011
MC Forward, Not Coded		1				0010
MC Forward, Coded		1		1		0011
Intra					1	0001 1
MC Interpolated, Coded, macroblock_quant	1	1	1	1		0001 0
MC Forward, Coded, macroblock_quant	1	1		1		0000 11
MC Backward, Coded macroblock_quant	1		1	1		0000 10
Intra macroblock_quant	1				1	0000 01

Macro Block (MB) complexity Table

MB - Type	MB-type - Index	weight code
Intra	0 0	0
Not MC, coded	0 1	W
MC, Not coded	1 0	2W
MC, coded	1 1	3 W

FIG. 5

PUBLISHED SEQUENCE

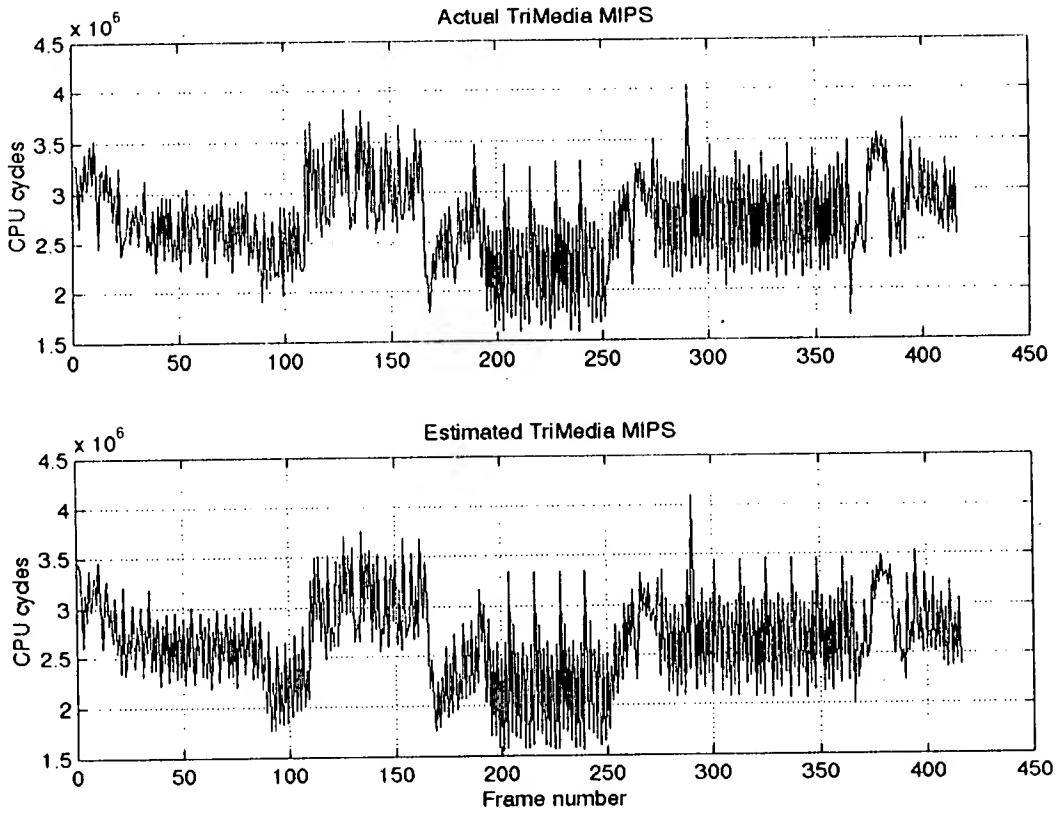

FIG. 6(a)

FOUND SOLEGO

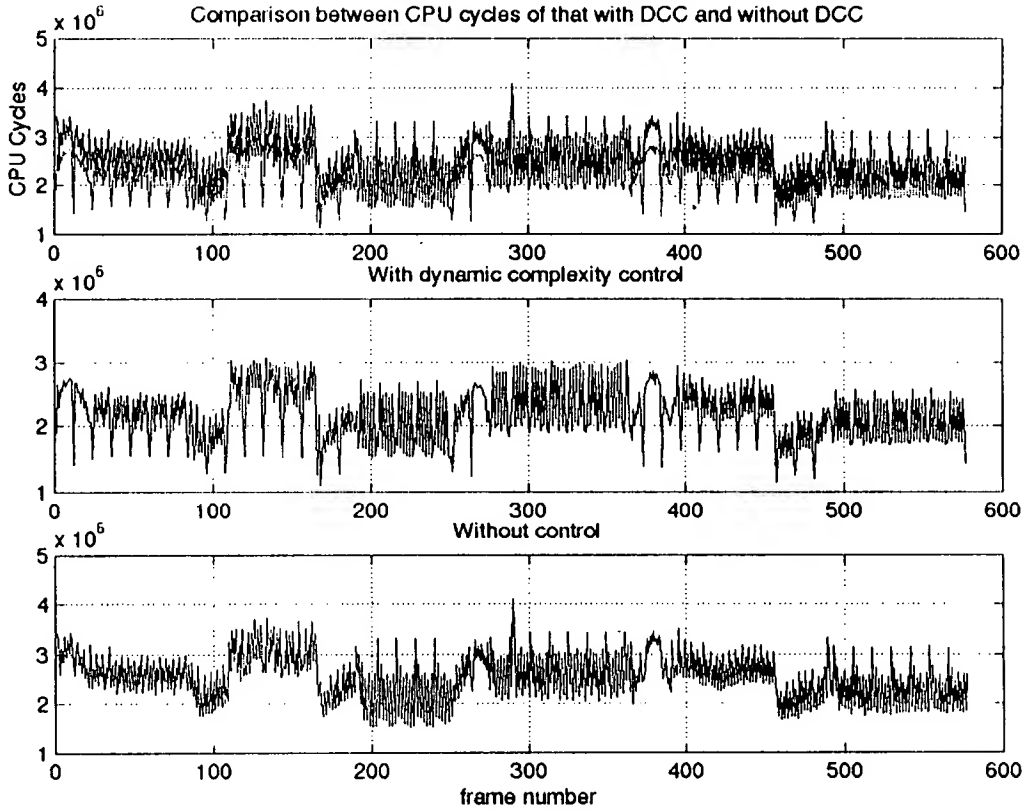

FIG 6(b)